

SEQUENCE LISTING

<110> EluSys Therapeutics, Inc.  
 <120> Immunogenicity-reduced anti-CR1 antibody and compositions and methods of treatment based thereon  
 <130> ELI-037US  
 <140> 10/551,525  
 <141> 2005-09-30  
 <150> 60/458,869  
 <151> 2003-03-28  
 <160> 14  
 <170> PatentIn version 3.2  
 <210> 1  
 <211> 366  
 <212> DNA  
 <213> Mus musculus

<400> 1  
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 acctgcactg tcaactggcta ctcaatcacc agtgattatg cctggaactg gatccggcag 120  
 tttccaggaa acaagctgga gtggatgggc tacataagct acagtggtag cactagctac 180  
 caccatctc tcaaaagtcg aatctctatc actcgagaca catccaagaa ccagttcttc 240  
 ctgcagttga attctgtgac tactgaggac acagccacat attactgtac aactatcatt 300  
 aactatgata agtacgactg gtacttcgat gtctggggcg cagggaccac ggtcaccgtc 360  
 tcctca 366

<210> 2  
 <211> 122  
 <212> PRT  
 <213> Mus musculus

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 Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15  
 Ser Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Ser Asp  
 20 25 30  
 Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Asn Lys Leu Glu Trp  
 35 40 45  
 Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Leu  
 50 55 60

Lys Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Phe Phe  
65 70 75 80

Leu Gln Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp  
100 105 110

Gly Ala Gly Thr Thr Val Thr Val Ser Ser  
115 120

<210> 3  
<211> 332  
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<213> Mus musculus

<220>  
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<223> n is a, c, g, or t

<220>  
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<222> (67)..(69)  
<223> n is a, c, g, or t

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aacagaaacc aggacagcca cccaaactcc tcatcaagta tgcattccagc ctagaatctg 180  
gggtccctgc caggttcagt ggcagtggtg ctgggacaga cttcaccttc aacatccatc 240  
ctgtggagga ggaggatact gcaacatatt actgtcagca cagttgggag attccgtgga 300  
cgttcgggtg aggcaccaca ctggaaatca ga 332

<210> 4  
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<213> Mus musculus

<400> 4

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Val Val Ser Leu Arg  
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Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser  
20 25 30

Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro  
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala  
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His  
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp  
85 90 95

Glu Ile Pro Trp Thr Phe Gly Gly Gly Thr Thr Leu Glu Ile Arg  
100 105 110

<210> 5  
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caaacagann nncatgagat cacagttctc tctacagtta ctgagcacac aggacctcac 120  
catgggatgg agctgtatca tcctcttctt ggtagcaaca gctacaggta aggggctcac 180  
agtagcaggc ttgaggtctg gacatatata tgggtgacaa tgacatccac tttgcctttc 240  
tctccacagg tgtccactcc gatgtgcagc ttcaggagtc gggacctggc ctggtgaaac 300  
cttctcagac tctgtcctc acctgcactg tctctggcta ctcaatgacc agtgattatg 360

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cctggaactg gattcggcag tttccaggaa aggggctgga gtggatcggc tacataagct 420
acagtggtag cactacctac cacccatctg tcaaaagtcg aatcactatc tctcgagaca 480
catccaagaa ccagttcttc ctgcagatga actctgtgac tactgaggac acagccacat 540
attactgtac aactatcatt aactatgata agtacgactg gtacttcgat tactggggcc 600
aagggaccac ggtcacgcgc tctcaggtg gtccttaciaa cctctctctt ctattcagct 660
taannngatt ttactgcatt tgttgggggg gaaatgtgtn nntctgaatt tcaggtcatg 720
aaggactagg gacaccttgg gagtcagaaa gggtcattgg gagcccgggc tgatgcagac 780
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<213> Mus musculus

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<400> 6

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Gly Val His Ser Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val
1           5           10           15

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Lys Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser
20           25           30

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Met Thr Ser Asp Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys
35           40           45

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Gly Leu Glu Trp Ile Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Thr Tyr
50           55           60

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His Pro Ser Val Lys Ser Arg Ile Thr Ile Ser Arg Asp Thr Ser Lys
65           70           75           80

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Asn Gln Phe Phe Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala
85           90           95

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Thr Thr Tyr Cys Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr
100          105          110

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Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
115          120          125

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 tgggatggag ctgtatcatc ctcttcttgg tagcaacagc tacaggtaag gggctcacag 180  
 tagcaggctt gaggtctgga catatatatg ggtgacaatg acatccactt tgcctttctc 240  
 tccacagggtg tccactccga cattgtgctg acacagtctc ctgcttcctt agttgtgtct 300  
 gtgaggcaga gggccaccat ctcatgcagg gccagccaaa gtgtcaggac atcaagttat 360  
 agttatatac actggtacca acagaaacca ggacagccac ccaaactcct catctactat 420  
 gcatccagcc tagaatctgg ggtccctgcc aggttcagtg gcagtgggtc tgggacagac 480  
 ttcacctca acatcagtc tgtggaggag gaggatactg caacatatta ctgtcagcac 540  
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 aatttaaact ttgcttcctc agttggatcc 630

<210> 8  
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<220>  
 <221> misc\_feature  
 <222> (104)..(104)  
 <223> Xaa can be any naturally occurring amino acid

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 20 25 30  
 Val Arg Thr Ser Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro  
 35 40 45  
 Gly Gln Pro Pro Lys Leu Leu Ile Tyr Tyr Ala Ser Ser Leu Glu Ser  
 50 55 60  
 Gly Val Pro Ala Arg Phe Ser Gly Ser Gly Thr Phe Thr Leu  
 65 70 75 80

Asn Ile Ser Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln  
85 90 95

His Ser Trp Glu Ile Pro Trp Xaa Phe Gly Pro Gly Thr Lys Val Glu  
100 105 110

Ile Lys

<210> 9  
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<400> 9

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Met Thr Ser Asp  
20 25 30

Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys Gly Leu Glu Trp  
35 40 45

Ile Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Val  
50 55 60

Lys Ser Arg Ile Thr Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Phe  
65 70 75 80

Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp  
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
115 120

<210> 10  
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<400> 10

Asp Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln

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Thr Leu Ser	Leu Thr Cys Thr Val Ser	Gly Tyr Ser Met	Thr Ser Asp
	20	25	30
Tyr Ala Trp	Asn Trp Ile Arg Gln Phe	Pro Gly Lys Gly	Leu Glu Trp
	35	40	45
Ile Gly Tyr	Ile Ser Tyr Ser Gly Ser	Thr Ser Tyr	His Pro Ser Leu
	50	55	60
Lys Ser Arg	Ile Ser Ile Ser Arg Asp	Thr Ser Lys	Asn Gln Phe Phe
	65	70	75 80
Leu Gln Met	Asn Ser Val Thr Thr Glu	Asp Thr Ala Thr	Tyr Tyr Cys
	85	90	95
Thr Thr Ile	Ile Asn Tyr Asp Lys Tyr	Asp Trp Tyr Phe	Asp Val Trp
	100	105	110
Gly Gln Gly	Thr Thr Val Thr Val	Ser Ser	
	115	120	

<210> 11  
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 <212> PRT  
 <213> Mus musculus

<400> 11

Asp Val Gln	Leu Gln Glu Ser Gly	Pro Gly Leu Val	Lys Pro Ser Gln
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Thr Leu Ser	Leu Thr Cys Thr Val Ser	Gly Tyr Ser Ile	Thr Ser Asp
	20	25	30
Tyr Ala Trp	Asn Trp Ile Arg Gln Phe	Pro Gly Lys Gly	Leu Glu Trp
	35	40	45
Ile Gly Tyr	Ile Ser Tyr Ser Gly Ser	Thr Ser Tyr	His Pro Ser Leu
	50	55	60
Lys Ser Arg	Ile Ser Ile Ser Arg Asp	Thr Ser Lys	Asn Gln Phe Phe
	65	70	75 80
Leu Gln Met	Asn Ser Val Thr Thr Glu	Asp Thr Ala Thr	Tyr Tyr Cys
	85	90	95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp  
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
115 120

<210> 12  
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<212> PRT  
<213> Mus musculus

<400> 12

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Thr Leu Ser Leu Thr Cys Thr Val Thr Gly Tyr Ser Ile Thr Ser Asp  
20 25 30

Tyr Ala Trp Asn Trp Ile Arg Gln Phe Pro Gly Lys Gly Leu Glu Trp  
35 40 45

Met Gly Tyr Ile Ser Tyr Ser Gly Ser Thr Ser Tyr His Pro Ser Leu  
50 55 60

Lys Ser Arg Ile Ser Ile Ser Arg Asp Thr Ser Lys Asn Gln Phe Phe  
65 70 75 80

Leu Gln Met Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Thr Thr Ile Ile Asn Tyr Asp Lys Tyr Asp Trp Tyr Phe Asp Val Trp  
100 105 110

Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
115 120

<210> 13  
<211> 111  
<212> PRT  
<213> Mus musculus

<400> 13

Asp Ile Val Leu Thr Gln Ser Pro Ala Ser Leu Val Val Ser Val Arg  
1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser  
20 25 30



Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro  
35 40 45

Lys Leu Leu Ile Tyr Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala  
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile Ser  
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp  
85 90 95

Glu Ile Pro Trp Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 14  
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<213> Mus musculus

<400> 14

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1 5 10 15

Gln Arg Ala Thr Ile Ser Cys Arg Ala Ser Gln Ser Val Arg Thr Ser  
20 25 30

Ser Tyr Ser Tyr Ile His Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro  
35 40 45

Lys Leu Leu Ile Lys Tyr Ala Ser Ser Leu Glu Ser Gly Val Pro Ala  
50 55 60

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile Ser  
65 70 75 80

Pro Val Glu Glu Glu Asp Thr Ala Thr Tyr Tyr Cys Gln His Ser Trp  
85 90 95

Glu Ile Pro Trp Thr Phe Gly Pro Gly Thr Thr Val Glu Ile Lys  
100 105 110